Subject Index

Carry-over 59

Cats 147, 155, 271

Carbachol 291-293

Catalepsy 35-38, 53-56

Carbohydrate metabolism 173-176

Flurazepam 203-206 Central nervous system 229-232 Children 117-123 Food intake 137, 139 Acetyl transferase 261, 262 Chloral hydrate 311 Foramidine pesticides 47-49 Acetylator status 261 Chlordiazepoxide 101-102 Adenyl cyclase 131-135 Chlordimeform 47-50 Affective disorder 131-135 p-Chlorophenylalanine 73, 76, 78 Aggression 144-146, 147-152. Gamma-butyrolactone 67, 69, 71 Chlorpromazine 125-130 Genetic 311 155-158, 165-172, 247-249, 253, Cholinoceptive mechanisms 147-152, Growth rate 137-146 255-257 155-158, 183 -188 Agonistic behavior 137-146, 253, Cholinomimetics 147-152 255-257, 295-299 Cidazindol 173-176, 177-181 Alcohol 81-85, 103, 104, 295-299 Haloperidol 35-38, 53-56, 303-306 Circadian alterations 111-116 Alpha-fluphentixol 67, 69, 71 Hashisch 247-249 Citalopram 13—18 Clopazine 303—306 Alpha-methyl-p-tyrosine 41-44 Heart rate 221-222 Amphetamine 25-27, 41-44, 47, 93-97 Hierarchies 165-172 Clorazepate 203-206 d-Amphetamine 183-188, 207-210, 253, Hormones 247-249 Cloridine 103-104 255-257 Human-beings 25, 81, 87, 117, 131, 177, Cocaine 47-50, 253, 255-257 Analgesics 25-27 189, 203, 211, 261 Cognitive tests 204 Angiotensin 291-293 5-HT-uptake 131-135 Competition 165-172 Anileridine 25-27 6-Hydroxydopamine 195-201 Conditioned avoidance response 309 Anorexia 137-146, 177-181 5-Hydroxyindole acetic acid 229-232 Convulsions 105-110 Anticholinesterase 147, 150 5-Hydroxytryptamine 177-181, 265-268, Cross-tolerance 311 Anticonvulsant drugs 277-278 Cyroterone acetate 247-249 Antinociception 159-163 synthesis 229-232 Antidepressants 13-18 5-Hydroxytryptophan 229—232 Antipsychotic effect 189-194 Hypertensive encephalopathy 189-194 Defensive behavior 253, 255-257 Apomorphine 195-201, 241-244, Hypothermia 137-146 Delta-9-tetrahydrocannabinol 137-146 303-306 Denervation 281 Appetide stimulants 47-50 Arecoline 53-56 Depression 261-262 Imipramine 117-123 Atenol 211-215 Depressive symptoms 117—123 Inhibitory avoidance task 221, 223 ATPase 131-135 Desipramine 177—181 Intraventricular injections 147-152 Diazepam 207-210 Attack 253, 255-257 of muscarine 155-158 Dihydroxytryptamines 281-286 Atropin 207-210 5,6-Dihydroxytryptamine 153-163 Automaintenance 207-210 Discrimination 125-130 - negative A. 207-210 Key-pecking 207-210 Divided attention 81-85 Automatic registration of behavior Dogs 295 303-306 Azaperone 103-104 Dopamine 35—38, 67, 69, 71, 177—181 Dorsal bundle 53-56 Latency 183-188 Drinking 291-293 Lateral-posterior-hypothalamus 271, 272 Drug tolerance 41-44 Learning 221 Baboons 277, 278 Dry action 211-215 L-Dopa 203-206, 241-244 Barbiturates 19-20 Dry effects 195-201 Lipid metabolism 173-176 Behavioral augmentation 59, 63 Dyskinesia, tardive 1, 3 Lithium 131-135 Benzodiazepines 277, 278 Locomotion 253, 255-257 Benztropine 67, 69, 71 Locomotor activity 67, 69, 71, 93-97, Beta-adrenergic-blockers 211-215 EEG 87, 88, 90, 91, 221, 222 271, 272, 303-306 Biologic generator 147-152 Locus coeruleus 53-56 Blood brain barrier 229-232 EEG sleep 117-123 LSD 125-130, 183-188, 265-268, 309 Blood ethanol concentrations 105-110 Ethanol 19-20, 59, 61-62, 87, 88, 90, 91, 195-201, 311 Lumber spinal cord 271 Blood pressure 221, 222 Ethanol withdrawal 105-110 Bromocriptine 241-244 Expectancy 81-85 Experimental pain 25-27 MAO-inhibitors 309 Marihuana 137-146

Fentanyl 103-104

Fighting 165—172 Flight 253, 255-257 Mazindol 177—182

Mescaline 265-268

Methadone 29, 32

Memory 221

Methamphetamine 101-102, 173-176 Met-enkephalin 217-218 Method 247-249 Methylphenidate 241-244 Mice 173, 221, 241, 247-249 Monkey 29, 32 Morphine 35-38, 53-56, 101-102, 103-104, 125-130, 207-210 Morphine withdrawal 165-172 Motor abnormalities 137, 141 Motor activities 41-44, 247-249 Motor behavior 173-176 Motor tests 204 Mouse killing 137, 138, 140 Muscarinic sites 155-158 Muscle spasm 281-286 Myoclonus 281-286

N

Naloxone 103—104
NaNO₂ 221, 224—227
Narcotic discrimination 103
Neuroleptics 291—293
Neurotransmitter 247—249
Nicotinic sites 155—158
Nicotinic stimulants 147, 151
Noradrenaline 53—56
Novelty 93—97

0

Omission training 73, 78

P

Parachloroamphetamine 103, 104 Partial differential REM deprivation 203—206 Passive-avoidance-learning 73-75, 78 Pentobarbital 103 Perception 125-130 PGE 159-163 Phenelzine 261, 262 Phenobarbital 311 Phenobarbital dependence 111-116 Photosensitive Epilepsy 277-278 Physical dependence 59 ff. Pigeons 183, 207 Pimozide 195-201 Pilocarpine 53-56 Platelets 131-135 Platelet uptake 177-181 Probenicid 229-232 Propoxyphene 103-104 Propanol 189-194, 211-215 Prostaglandins 217, 218 Psychomotor stimulants 253, 255-257

Q

Quipazine 265-268

R

Raphe nucleus 73, 75—76, 78
Receptors 1, 6—11
REM sleep 203—206
Response inhibition 73, 78
Rats 1, 13, 19, 35, 41, 47, 53, 59, 67, 73, 93, 101, 103, 105, 111, 125, 137, 159, 165, 195, 217, 221, 229, 253, 265, 281, 291, 303, 309, 311

S

Schizophrenia 189—194 Scopolamine 303—306 Serotonin 73-78, 159-163, 281, 282-286, 309 Serum and brain levels 111-116 Sleep 29, 32 Social behavior 137, 138, 139 Social systems 295-299 Sodium nitrite 221 Stereotyped behavior 93-97, 303-306 Stereotypy 1, 35 Stimulus control 265-268 Stimulus properties 19, 20 Sulfentanyl 103, 104 Sulpiride 271-273 Supersensitivity 241-244, 281-286 Sustained ingestion 29, 32 Swimming capacity 173-176 Synaptosomes 13, 14

T

Tandamine 177—181
Taste condition aversion 101, 102
Temperature 217, 218
Temporal discrimination 183, 188
THC 183—188
Thioproperazine 271, 272
Timing 183—188
Tolerance 59, 61, 62, 144—146
Tolerance to ethanol 105—110
TRH 203—206
Tryptophan 229—232
Tyramine pressor response 177—181

V

Vocalisations 253, 255-257

Advice to Authors

The illustrations that will appear in your contribution will be shown to best advantage if you follow the brief set of instructions below. Please read carefully. Thank you.

The Publisher

Preparation of Line Drawings

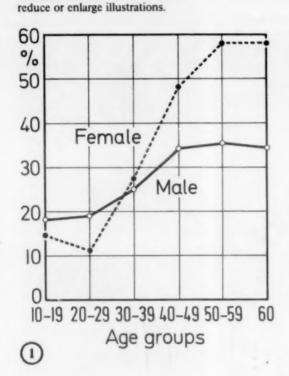
Illustration copy should be prepared to fit the format of the column or printed page (print area) so that 1:1 reproduction is possible. In case reduction is absolutely necessary, please state the alternative scale desired.

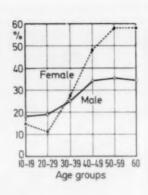
The publisher reserves the right to

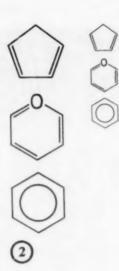
Drawings are to be twice the final size and executed in indelible black ink.

Important points to note: thickness of lines, size of inscriptions, size of measuring points, adequate spacing of shaded and dotted areas. Words should be in upper- and lower-case characters, not capitals.

The following are optimal sizes as they finally appear in the journal:
Capital letters and numbers: 2 mm
Lower-case letters: 1.6 mm.

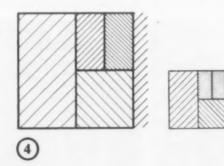






samples 1 to 5 show the original size and after 50% reduction

× + ...



ABCDEFGHIJKLMNOPQRSTUVWXYZ aabcdefghijklmnopqrstuvwxyz 1234567890 1.5° \mathbb{II} \mathbb{IV} \mathbb{VIII} \mathbb{IX} ∞ % \approx [(=-+x÷!?:"",)] (A) (B) (a) (b)

ABCDEFGHIJKLMNOPQRSTUVWXYZ agbcdefghijklmnopqrstuvwxyz 1234567890 1-5° III IV VIII IX ∞ % \approx [(=- \times x+!?:"",)] (A) (B) (a) (b)

Selection of Illustration Material for Halftones (photographs, micrographs, X-rays, instrument traces etc.).

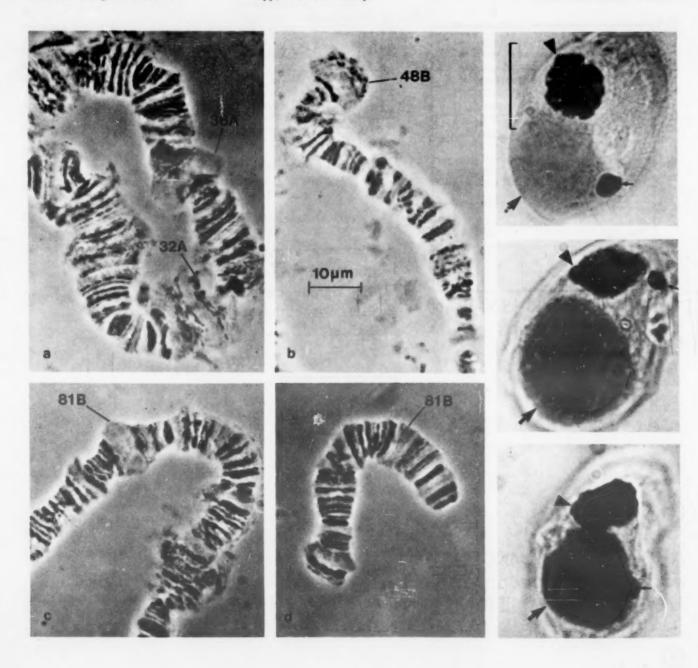
Photographs should be sharp, well-contrasted glossy prints of the original negative, trimmed at right angles. Halftone illustrations should be prepared to fit the format of the printed page (print area) so that 1:1 reproduction is possible. In case reduction is absolutely necessary, please state the alternative scale desired. The publisher reserves the right to reduce or enlarge illustrations.

Mark or crop marginal portions which are not required (at right angles, please).

Please see that illustrations which are to appear together are mounted accordingly as plates and that they correspond in size. Also they should not exceed the print area of the page, including room for the legend.

With X-rays, please indicate the significant parts on the back of the copy, or on an overlay.

Inscriptions, marks and scale lines should preferably be drawn neatly in black ink in an appropriate size on the face of the illustrations. Inscriptions should be about 3 mm high. Where Letraset is used, please handle it carefully and protect the photographs with an overlay.



Archives of Gynecology Archives of Orthopaedic and Archives of Orthopaedic and Traumatic Surgery Archives of Oto-Rhino-Laryngology/ Archive für Ohren, Nasen- und Kehlkopfheilkunde Archives of Toxicology/ Archive für Toxikologie terichte Physiologie, physiologische hemie und Pharmakologie/Physiolo hyxological Chemistry and harmacology Berichte über die allgemeine und spezielle Pathologie/Pathology Berichte über die gesamte Gynäkolog und Geburtshilfe sowie deren Grenz-gebiete/Gynaecology – Obstetrics **Blood Cells** Bulletin of Environmental Contamination and Toxicology Calcified Tissue International Cancer Chemotherapy and Pharmacology Cancer Immunology and Immunotherapy Cardiovascular Radiology Cell and Tissue Research Der Chirurg Chirurgia plastica Diahetologia European Journal of Applied Physiology and Occupational Physiology European Journal of Clinical Pharmacology **European Journal of Nuclear Medicine European Journal of Pediatrics Experimental Brain Research Gastrointestinal Radiology** w. Graefex Archiv für klinische und e- erimentelle Ophthalmologie/ v. Graefe's Archive for Clinical and Experimental Ophthalmology **Gypecologic Pathology** Der Gynäkologe Der Hautarzt Histochemistry IINO Human Genetics Immunogenetics Intensive Care Medicine International Archives of Occupational and Environmental Health International Orthopsedics Der Internist Journal of Cancer Research and Clinical Oncology The Journal of Membrane Biology Journal of Neurology Zeitschrift für Neurologie Kidney International Klinisch a Wochenschrift Langenbecks Archiv für Chirurgie Lung Medical Microbiology and Immunology

Medical Progress through Technology Monatsschrift für Kinderheilkunde

Springer Journals keeping you in pace with science.

Springer journals are known and respected internationally for keeping professionals in science and in medicine, in research and in industry well-informed about the rapid progress in their fields. Decide for yourself by sending in one of the order coupons.

To: The Head Librarian/The Library Committee

From:

Department:

	ecommend that the journal(s) be purchased for the /Department Library
	would like to see the Springer Journals Catalog with mation on subscriptions/back volumes/microform
	e obtain sample copies on other related Springer Journals or latest index/sample copy including volume-index
UBS	SCRIPTION ORDER FORM
PRIN	GER-VERLAG BERLIN HEIDELBERG NEW YORK
lease o	order through your bookseller:
Sprin	nger-Verlag, P.O. Box 105280, D-6900 Heidelberg,
	ntries (except North America)
	rth America) Springer-Verlag New York Inc., fth Avenue, New York, NY 10010, USA
	America subscriptions are entered with prepayment only.
Plea	se enter my/our subscription to (please give title or ISSN)
	bscription information is given on inside r back cover page
ame:	
ddres	s:
	1
ate/S	ignature
This	s is a new order This is a renewal order
	send a sample copy and/or latest index/sample copy ng volume-index (supply is limited):

To: The Head Librarian/The Library Committee

Postcard - Airmail

To the bookseller

Naunyn-Schmiedeberg's Archives of Pharmacoivegy Der Nerventigt Neuroradiology Nouvelle Revue France d'Hématologie Der Orthopide **Pediatric Cardiology** Pflügers Archiv Praxis der Psychotherapie und **Psychosomatik Psychological Research** Psychopharmacology Radiation and Environmental Biophysics Der Radiologe Research in Experimental Medicine/ Zeitschrift für die gesamte experi-mentelle Medizin einschließlich experimenteller Chirurgie Social Psychiatry Springer Seminars in Immunopathology Unfallheilkunde/Traumatology Der Urologe, Ausgabe A + B Urologic Radiology Urological Research Yirchows Archiv A Pathological Aratomy and Histology Virchows Archiv B Cell Pathology World Journal of Surgery Zeitschrift für Parasitenkunde Zeitschrift für Rechtsmedizin/ Journal of Legal Medicine Zentralblatt für die gesamte Kinderheilkunde/Pediatrics Zentralblatt für die gesamte Neurologie und Psychiatrie/Neurology – Psychiatry Zentralblatt für die gesamte Ophthalmologie und ihre Grenz-gebiete/Ophthalmology Zentralblatt für die gesamte Radiologie/Radiology Zentralblatt für die gesamte Rechtsmedizin und ihre Grenzgebiete/ Legal Medicine Zentralbiatt für Hals-, Nasen- und Ohrenheilkunde, Plastische Chirurgie an Kopf und Hals/Oto-Rhino-Laryngology Plastic Surgery of Head and Neck Zentralblatt Haut- und Geschlechtskrankheiten/Dermatology Venerology - Andrology Zentralbiatt Gastroenterologie -Stoffwechsel - Endokrinologie/ Gastroenterology - Metabolism -Endocrinology Zentraiblatt Hämatologie – Klinische Onkologie/Haematology – Clinical Oncology Zentralblatt Immunologie -Transplantation/Immunology -Transplantation Zentralblatt Kardiologie -Nephrologie/Cardiology -Nephrology Zentralbiatt Pneumonologie und Tuberkulose/Pneumonology – Tuberculosis Zentralblatt Praktische Innere Medizin und Grenzgebiete/ Internal Medicine Zentralorgan für die gesamte Chirurgie und ihre Grenzgebiete/ Surgery

Springer Zeitschriften Neurologie – Psychiatrie

Acta Neuropathologica

Organ of the Research Group for Neuropathology, of the Research Group for Comparative Neuropathology, and of the Research Group for Neurooncology of the World Federation of Neurology.

Archives of Psychiatry and Neurological Sciences

Official Organ Gesamtverband Deutscher Nervenärzte

Experimental Brain Research

Journal of Neurology

Zeitschrift für Neurologie Organ of the Deutsche Gesellschaft für Neurologie and the Deutsche Gesellschaft für Neurochirurgie

Der Nervenarzt

Praxis der Psychotherapie und Psychosomatik

Organ der Lindauer Psychotherapiewochen

Psychological Research

Psychopharmacology

Social Psychiatry

Zentralblatt für die gesamte Neurologie und Psychiatrie



Folgende Zeitschrift möchte ich näher kennenlernen:

(Angabe des Zeitschriftentitels)

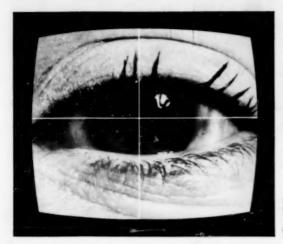
Name

Anschrift

Bitte richten Sie Ihre Anfrage direkt an Ihren Buchhändler oder an den Springer-Verlag, Postfach 10 52 80, D-6900 Heidelberg



Springer-Verlag Berlin Heidelberg New York



ASL's systems for pupillometry and eye movement analysis

Six efficient, flexible choices, one of which is right for your next program

Gulf+Western Applied Science Laboratories' Eye Trac^(R)line consists of cost effective, proven systems, widely used in applications like psychological evaluations, effects of drugs, perception studies, human factors engineering, and behavioral research.



The Basic System - Model 1992 Eye Trac Monitor and TV Pupillometer uses video techniques to track point of gaze, and display pupil diameter, independent of head movement. Output is presented visually on a TV screen, with analog and digital outputs available for recording and/or computer processing.



Greater Subject Freedom - Model 1994S includes provisions that allow the camera and other accessories to be placed two to three feet away from the subject for a more relaxed environment.

Other instruments available include heart rate/ECG monitors and automatic blood pressure systems.



Computerized Flexibility - Model 1996 is an advanced, powerful, and flexible system for unobtrusive measurement of eye position and pupil diameter. The system offers considerably greater tolerance of head motion, eye motion, most eyeglasses, and some contact lenses. It incorporates automatic calibration, and very high data-handling capability, in addition to other standard features.



Maximum Subject Freedom - Model 1998 has Model 1996's computer capability, plus a head-tracking mirror that monitors the subject despite moving, talking, blinking, most eyeglasses, and some contact lenses.



Reading Evaluations - Model 106 Eye Trac system is a simple unit that takes only 3-5 minutes to deliver objective, quantified, and permanent recording of binocular visual function and performance.



Economical - Model 200 Eye Trac accurately measures both horizontal and vertical eye movements by employing a non-contacting photo-electric technique.

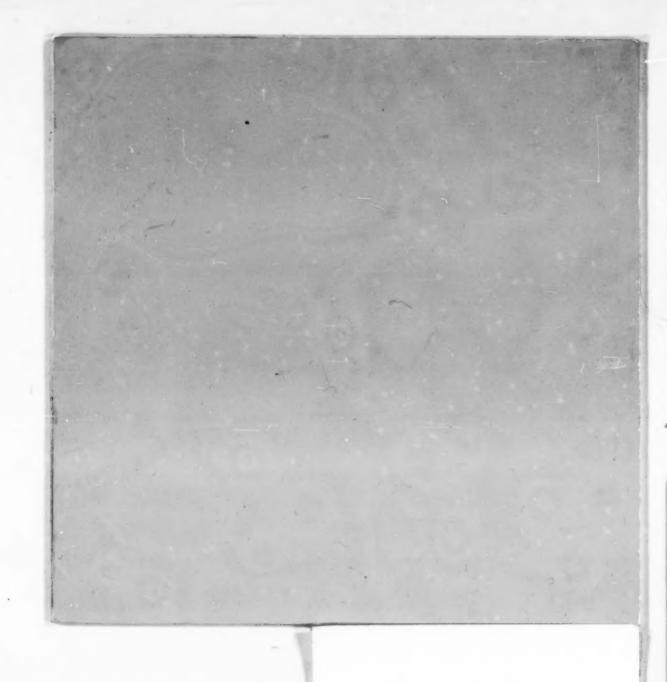
For Information - Write or call for detailed performance specifications and prices to: Gulf+Western Applied Science Laboratories, 335 Bear Hill Road, Waltham, Massachusetts, 02154. Telephone: 617-890-5100.

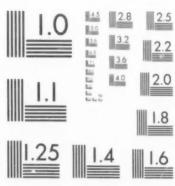


Applied Science Laboratories

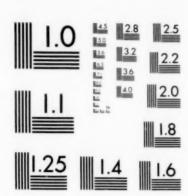
GULF + WESTERN RESEARCH AND DEVELOPMENT GROUP







MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A



MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

